

## Amendments to the Claims

Claims 1-10 (Cancelled)

Claim 11 (Currently Amended): An isolated antibody immunologically specific for an ~~isolated~~ human methyl-CpG binding endonuclease 1 (MED1) protein of SEQ ID NO: 2, ~~about 580 amino acids in length, said protein comprising an amino-terminal methyl-CpG binding domain, an internal segment containing a plurality of positively charged amino acids and a carboxyterminal catalytic domain, said protein having binding affinity for CpG methylated DNA.~~

Claim 12 (Previously Presented): The antibody as claimed in claim 11, said antibody being monoclonal.

Claim 13 (Previously Presented): The antibody as claimed in claim 11, said antibody being polyclonal.

Claim 14 (Currently Amended): An isolated antibody fragment immunologically specific for a methyl-CpG binding endonuclease 1 (MED1) protein of SEQ ID NO: 2, said fragment being selected from the group consisting of Fab fragment, Fd fragment, dAB fragment, Fv fragment, isolated CDR region and F(ab')<sub>2</sub> fragment, and single chains Fv fragment.